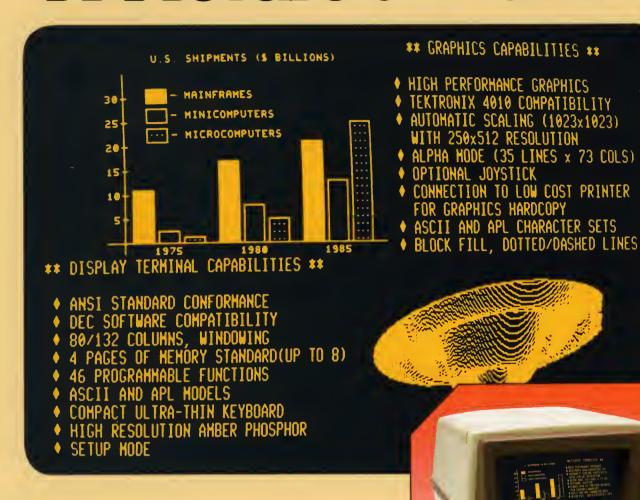
A Picture's Worth:



CONCEPT GVT+™

Graphics Display Terminal

human designed systems, inc.

A practical resolution for your graphics requirements

CONCEPT GVT+ Graphics Display Terminal

A practical resolution for your business and analysis graphics requirements

The Human Designed Systems concept GVT+™ graphics display terminal. Combining high-performance graphics with the industry's "smartest" interactive display terminal. Providing features which extend beyond the capabilities of the Tektronix® 4010...and at a price that makes it the

industry's best graphics display terminal buy. And, whether used in video display mode or in its high-performance graphics mode, offering more at its price for terminal operators, interactive users, and applications developers than any other terminal available today.

In graphics mode...

The concept GVT+ graphics display terminal provides software compatibility with the Tektronix 4010 with its standard vector (780 x 1024), alpha (35 lines by 73 columns) and GIN (graphical input) modes. It provides many capabilities beyond those of the 4010 — including vector and character erasure or write-over, block fill, memory dump and load, dotted and dashed lines, hardcopy production via attachment to a low-cost printer, and graphics memory dim Graphics memory can be accessed by either of the terminal's two standard bidirectional communications interfaces.

These capabilities make the concept GVT+ ideally suited for a wide range of graphics applications:

- Quick and simple data analysis and presentation of low-resolution business graphics (e.g. bar and pie charts, and curve fitting)
- Low-cost and fast method to preview and print high-resolution complex graphic presentations
- Practical, low-cost solution for lowresolution CAD/CAM applications

In interactive display mode...

The concept GVT+ graphics display terminal offers all of the capabilities of the industry's smartest terminal — the concept AVT+™. Standard capabilities include ANSI X3.64-1979 standard conformance, DEC software compatibility, four pages of memory (eight pages optional), 80/132 columns, compact, ultra-thin, detached 101-key keyboard, windows, easy-to-use setup mode, 46 fully programmable functions, multiple character sets, nonvolatile memory for permanent terminal reconfiguration, text editing and data entry applications functionality, two bidirectional communications interfaces for simultaneous connection to multiple computers, block mode and much more — to provide the perfect tool for terminal operators, interactive users and applications developers. Please see the concept AVT+ product specification DN 2301-8401-1) for a complete description of these capabilities.

An APL version (concept GVT-APL+**) is also offered, which provides both APL and ASCII character sets and software compatibility with the Tektronix 4013.

GRAPHICS MODE FUNCTIONAL CAPABILITIES

Vector Mode

Vector draw or block fill
Resolution: 250 x 512 scaled from
780 x 1024
Data levels; black, white, opposite
(write-over).
Line types: normal, dotted, dot-dashed,
short-dashed, long-dashed.

Alpha Mode

Character set: 96-character upper/lower case ASCII
Screen format: 35 lines by 73 columns.
Character formation: 6 x 6 within a 7 x 7 dot matrix.
Auto wraparound to second column on

page full. Cursor controls: up, down, left, right.

GIN Mode (Graphical input)

Use of cursor controls (up, down, left, right) or optional joystick.

Additional Capabilities

Memory dump/load.
Print graphics memory
Transmit status.
Dim graphics memory
Ability to power up in graphics mode
(required for true 4010 software
compatibility).

Graphics Options

Joystick: alternate Gin mode input



HDS

human designed systems, inc. 3440 Market Street Philadelphia, PA 19104 215-382-5000

INTERACTIVE DISPLAY MODE FUNCTIONAL CAPABILITIES

Same as concept AVT+
See product specification DN 2301-8401-1

PHYSICAL CHARACTERISTICS

General

Dimensions: Monitor — 15%" W x 15%" H x 16%" D (38.7 cm x 39.4 cm x 419 cm). Keyboard — 16%" W x 1%" H x 7%" D (41.3 cm x 4.4 cm x 19.4 cm)

Power: 115 VAC; 60 Hz; optional: 220/240 VAC, 50 Hz.
Weight: 38 lbs. (17.27 kg).

Memory

Size: Graphics — one page.

Interactive display — four pages (96 80-column lines) standard; (eight pages optional: 192 80-column lines).

Graphics memory and 24 lines of interactive display memory are displayed simultaneously at all times.

Either memory may be set to be non-visible.

Display

12-inch diagonal high-quality direct-etch amber (ALA) phosphor No-cost options include direct-etch white (P4) or green (P31).

Keyboard

Compact, ultra-thin, detached via retractile coiled cord.

101 keys with typewriter-style layout — numeric, cursor, command and function pads standard Forty-six programmable functions.

Communications

Code: ASCII
Type: Two bidirectional RS232C interfaces
(20 mA current loop optional), 50-9600
baud (15 rates).
Parity: even, odd, none, mark, space.
Duplex: half/full.
Stop bits: one or two.
Controls: XON/XOFF and EIA CTS/RTS
handshake.

The concept Family

Other members of the concept display terminal family include: concept AVT+™ Display Terminal concept AVT-APL+™ Display Terminal concept GVT-APL+™ Graphics Display Terminal